EV635996137US 01-05.06

Application Number

Filing Date

II 4 PTO/SB/21 (09-04)

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10/821,658

April 8, 2004

FOR	M	First Named Inventor	Eric No	rman	
		Art Unit	3663		
(to be used for all correspond	lence after initial filing)	Examiner Name	Ricardo	J. Palabrica	
Total Number of Pages in This		Attorney Docket Number	IB-1897	1	
		- <u></u>			
	ENC	LOSURES (Check a	li that apply)		
Fee Transmittal Form Fee Attached  Amendment/Reply After Final Affidavits/decla Extension of Time Rec Express Abandonment X Information Disclosure  Certified Copy of Prior Document(s) Reply to Missing Parts Incomplete Application Reply to Missin	aration(s) quest tt Request e Statement  Tity Rema Please	Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a Provisional Application Power of Attorney, Revocati Change of Correspondence Terminal Disclaimer  Request for Refund  CD, Number of CD(s)  Landscape Table on Corks charge any credit/deficients	Address	Appea of Appea (Appea (	ions; SB 08A and SB 08B; if IDS Under 37 C.F.R.§ .10; and Return Postcard
under 37 CFR	1.52 or 1.53				
	SIGNATURE C	OF APPLICANT, ATTO	DRNEY, O	R AGENT	
Firm Name Lawrence	e Berkeley Natior	nal Laboratory			
Signature R &	re Com	-		<u> </u>	
Printed name R'Sue P. C	Caron				
Date 1/3/	106		Reg. No.	52,699	
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	I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:				
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions deviation, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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JAN 0 3 2006 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Effective on 12/08/2004. Complete if Known Grsuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/821.658 Application Number TRANSMIT Filing Date April 8, 2004 For FY 2005 First Named Inventor Eric Norman **Examiner Name** Ricardo J. Palabrica Applicant claims small entity status. See 37 CFR 1.27 Art Unit 3663 TOTAL AMOUNT OF PAYMENT (\$) 180.00 Attorney Docket No. IB-1897 METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order None Other (please identify): X Deposit Account Deposit Account Number:\_ 120690 Deposit Account Name: Lawrence Berkeley National Laboratory For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) X Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES SEARCH FEES EXAMINATION FEES** Small Entity Small Entity Small Entity **Application Type** Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 500 150 200 100 0.00 250 Design 200 100 100 130 50 65 Plant 200 100 300 150 160 80 600 Reissue 300 150 500 250 300 Provisional 200 100 0 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee Description Fee (\$) Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 **Total Claims Extra Claims** Fee (\$) Fee Paid (\$) Multiple Dependent Claims Fee (\$) Fee Paid (\$) HP = highest number of total claims paid for, if greater than 20. Indep. Claims **Extra Claims** Fee (\$) Fee Paid (\$)

HP = highest number of independent claims paid for, if greater than 3. If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50

sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or frac **Total Sheets** Number of each additional 50 or fraction thereof Fee (\$) (round up to a whole number) x 250.00 - 100 =

4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)

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SUBMITTED BY Registration No. Telephone Signature 52,699 510-486-6503 (Attorney/Agent) Date Name (Print/Type) R'Sue P. Caron January 3, 2006

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JAN 0 3 2006

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/821,658

Filing Date 04/08/2004

First Named Inventor Eric Norman

Art Unit 3663

Examiner Name Ricardo J. Palabrica

Attorney Docket Number IB-1897

(Use as many sheets as necessary)
Sheet 1 of

$\overline{}$			U. S. PATENT	DOCUMENTS	
Examiner nitials	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 3,636,353	01/18/1972	Untermyer	
		us- 4,902,467	02/20/1990	Schoenig et al.	
		us- 4,897,550	01/30/1990	Bernard et al.	
		us- 5,378,895	01/03/1995	Cole et al.	
		<sup>US-</sup> 3,767,919	10/23/1973	Michaelis	
		<sup>us-</sup> 3.796.875	03/12/1974	Michaelis	
		<sup>US-</sup> 5,784,424	07/21/1998	Fries et al.	
		<sup>US-</sup> 3,786,256	01/15/1974	Untermyer	
		US-			

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> 'Number <sup>4</sup> 'Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵	
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Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (07-05)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

	Complete if Known	
Application Number	10/821,658	
Filing Date	04/08/2004	
First Named Inventor	Eric Norman	
Art Unit	3663	
Examiner Name	Ricardo J. Palabrica	
Attorney Docket Number	IB-1897	

		NON PATENT LITERATURE DOCUMENTS	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SLAUGHTER ET AL., "Detection of Special Nuclear Material in Cargo Containers Using Neutron Interrogation," Lawrence Livermore National Laboratory, UCRL-ID-155315, (No. IL 11319), p. 1-63, (August 2003).	
		SLAUGHTER ET AL., "The "Nuclear Car Wash": A Scanner to Detect Illicit Special Nuclear Material in Cargo Containers," IEEE Sensors Journal, Special Issue on Sensors for the Prevention of Terrorists Acts, UCRL-JRNL-202106, p. 1-8, (January 30, 2004).	***************************************
		NORMAN ET AL., "Signatures of Fissile Materials: High-energy y Rays Following Fission," Nuclear Instruments and Methods in Physics Research A, Vol. 521, p. 608-610, (2004).	
		ALFASSI, "Response to A Comment on "Signatures of Fissile Materials: High-energy y Rays Following Fission"," Nuclear Instruments and Methods in Physics Research A, Vol. 534, p.577, (2004).	
***************************************		PRUET ET AL., "Monte Carlo Models for the Production of B-delayed Gamma-rays Following Fission of Special Nuclear Materials," Nuclear Instruments and Methods in Physics Research B, Vol. 222, p. 403-410, (2004).	
		NORMAN, "An Eclectic Journey Through Experimental Physics, or How I Learned to Stop Worrying and Love Nuclear Data," Lawrence Livermore National Laboratory, UCRL-PROC-208598 p. 14-18, (December 14, 2004).	***************************************
		SLAUGHTER ET AL., "Early Results Utilizing High-Energy Fission Product y Rays to Detect Fissionable Material in Cargo," Lawrence Livermore National Laboratory, Vol. UCRL-JRNL-207073, p.1-6, (October 10, 2004).	
		BIEVER, "Improved X-ray Vision to Stop Nuke Smugglers," New Scientist.com News Service, (October 20, 2005).	
,		STROM ET AL., "Ionizing Radiation Imaging Technologies for Homeland Security," Health Physics Society, Proceedings of the 36th Midyear Topical Meeting, p. 79-87, (January 26, 2003).	
		GOZANI, "A Review of Neutron Based Non-Intrusive Inspection Techniques," Conference on Technology for Preventing Terrorism, Hoover Institution, Stanford University, p. 1-12, (March 12, 2002).	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: N	orman, Eric				
Application No.: 10/821,6 Filed: April 8, 2004 For: Detecting Special 1 Products		xamin	lo.: 3663 er: Ricardo J. Pa ng High-Energy		ssion
110000		1	01/06/2006 HDE	MESS1 00000020 120690	10821658
Mail Stop: Amendment Commissioner for Paten P.O. Box 1450 Alexandria, VA 22313-1			01 FC:1806	180.00 DA	
TRANSM	IITTAL OF INFORMATION	ON DI	SCLOSURE ST	<b>FATEMENT</b>	
I. This information	disclosure statement is filed	pursuai	nt to (CHECK	ONE BOX):	
(1) within prosecution applica (2) within international applica (3) before (4) before under § 1.114.	sclosure statement is filed eithe three months of the filing date tion under § 1.53(d); three months of the date of entration; the mailing of a first Office act the mailing of a first Office act	of a nat y of the ion on the	national stage as the merits; <b>or</b> the filing of a re	set forth in § 1.491 in quest for continued exa	an
CER	TIFICATION UNDER 3	7 C.F.	R. §§ 1.8(a) a	nd 1.10*	
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I hereby certify that, on	the date shown below, this corresponde	nce is bei	ng:		
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37 C.F.R. {			37 s "Express Mail Post ng Label No. <u>EV</u>		nandatory)
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Date: <u>1/3/2006</u>	·		Signature  Mark Men (type or print no	ge ame of person certifying)	

<sup>\*</sup> Only the date of filing (' 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under ' 1.8 continues to be taken into account in determining timeliness. See ' 1.703(f). Consider "Express Mail Post Office to Addressee" (' 1.10) or facsimile transmission (' 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

	37 CFR 1.97(c) This information disclosure statement is filed after the period specified in paragraph 37 CFR 1.97(b), but before the mailing date of any of the following:  (1) a final action under § 1.113; (2) a notice of allowance under § 1.311; or (3) an action that otherwise closes prosecution in the application.
	Accordingly, this information disclosure statement requires either:  (1) the statement specified in paragraph 37 CFR 1.97(e)(1) or (2); or  (2) the fee set forth in § 1.17(p) for submission of an information disclosure statement under 37 CFR 1.97(c).
	37 CFR 1.97(d) This information disclosure statement is filed after the period specified in paragraph 37 CFR 1.97(c), provided that the information disclosure statement is filed on or before payment of the issue fee and is accompanied by:
	Accordingly, this information disclosure statement requires:  (1) the statement specified in paragraph 37 CFR 1.97(e)(1) or (2); and  (2) the fee set forth in § 1.17(p) for submission of an information disclosure statement under 37 CFR 1.97(d)
indicat approp	information disclosure statement crosses in the mail with an office action, or is otherwise not in the ted category of 37 CFR 1.97, it is respectfully requested that this statement be treated in the next oriate category and made of record. To the extent required, please treat this paper as a conditional n for acceptance of the information disclosure statement.
·II	Fees Due (CHECK ONE BOX):
	No fee is due.
⊠ 1.97(c)	The fee as set forth in § 1.17(p) for submission of an information disclosure statement under 37 CFR or (d) is enclosed (\$180).
Ш	Statement (CHECK ONE BOX):
×	No statement is necessary.
	Pursuant to 37 CFR 1.97(e)(1), the undersigned hereby certifies: That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement; or
	Pursuant to 37 CFR 1.97(e)(2), the undersigned hereby certifies: That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this information disclosure statement.

IV	Method	of Payment	of Fee
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Authorization is hereby made to charge the amount of \$180.00 to Deposit Account No. 120690.

A duplicate of this paper is attached.

Date: \_\_\_\_\_ January 3, 2006

R'Sue P. Caron Registration No. 52,699 Lawrence Berkeley National Laboratory Office of the Laboratory Counsel One Cyclotron Road MS 90B0104 Berkeley, CA 94720 510-486-6503

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